MANUAL

for use of MONOX with TRITON PPO2 display with HUD V1.32
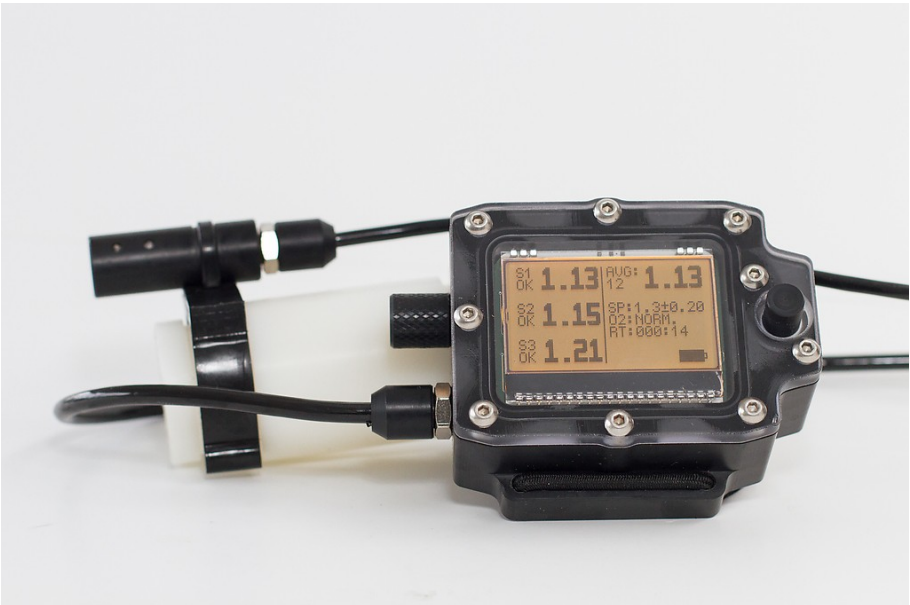
SUMMARY

DESCRIPTION

Overview

Display of the PPO2 is calculated on the cells, inside TRITON, thanks to electronic device MONOX.

PPO2 on 1 to 3 cells (including average for all during the dive), is given by MONOX.

Depending on parameters definition, overvalue (alarm) of PPO2 definded range is indicated by 2 LEDs on the HUD.

Monox power is supplied bu inner high capacity Lithium battery which is fully recharged in 2h. Battery status is indicated by icon.

MONOX is tested until 100m depth.

Description
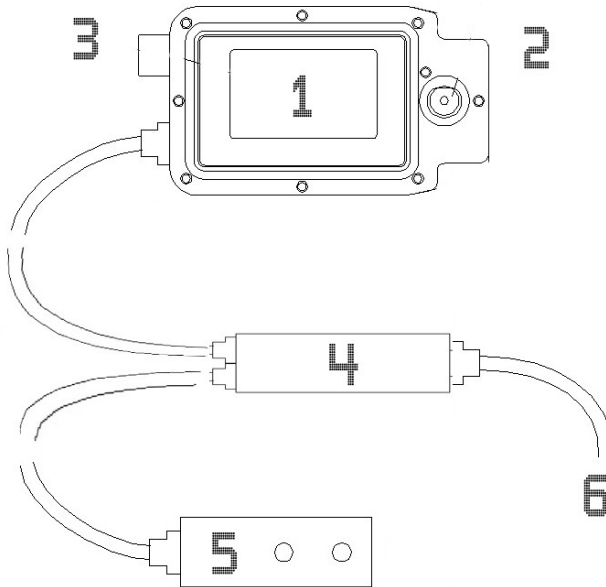
Device componants :

1 – Display (the body)

2 – push button (short press for running – long press for validation)

3 – plug of power supply socket

4 – distributor

5 – red LED for low level-alarm, yellow LED (close to cable) for high level-alarm
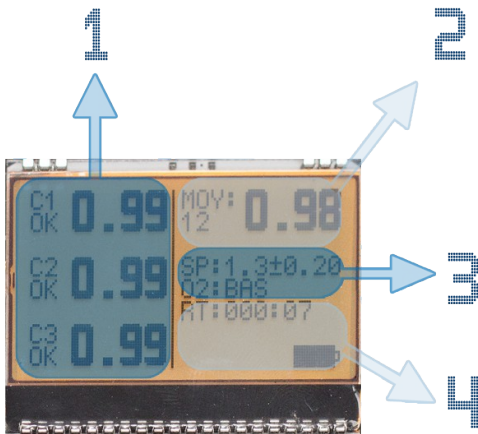
6 – direction to cells holder.

OPERATION

One short press on the button is done to open the MONOX. One long press is done to enter inside menus.

Have a look on informations wich appear on the display :

Display during diving :

1 – This area is corresponding to cells values with PPO2 for each cell number and calibration status of them.

2 – This aera is corresponding to average value of the cells during RT with chosen cells to calculate the average (12, 1 3 or 23)

3 – This aera is corresponding to parameters definition of high and low level alarms, including present status, depending on the average value.

4 – This area is corresponding to RT : average calculation duration and battery status.

Menus

MAIN MENU

Main menu is subdivided in 6 titles of which the 3 last are sub-menus.

Start runtime is used to start the calculation of the average (when the average display is activated)

next 3 detailed after

POWER OFF is used to switch off the Monox.

EXIT is used to come back to PPO2 display.

CELLS MENU

SELECTING CELLS is used to define parameters of the cells : to choose the cells type and their number. With TRITON, the by default values are as follows : generic type and 3 cells.

CELLS CALIBRATION is used to calibrate cells with air, or with oxygen and to choose the desired rate (98 %, 99 % ou 100%)

When cells are ready (in the chosen gas) . Appropriate line has to be validated, then altitude where you are has to be recorded

As soon as calibration is done, MONOX displays the result for each cell and their voltage. Then go to Save and Exit
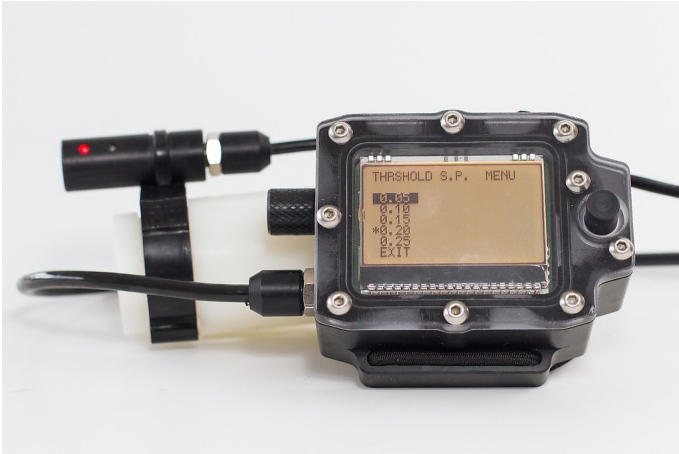
ALARM SETPOINT MENU

O2 SETPOINT is used to choose the fixed PPO2 value.

TRESHOLD is used to select the range of treshold.

With the fixed PPO2 value, the treshold is used to manage the high and low level alarms.

e.g : O2 SETPOINT on 1.00, TRESHOLD on 0.10

High level of PPO2 = 0.90 Low level of PPO2 = 1.10

If cells values are greater than 0.10 from the fixed PPO2 (1.10), high level alarm will be on : display area 3 = O2 : HIGH and yellow LED lighting.

If cells values are lower than 0.10 from the fixed PPO2 (0.90), low level alarm will be on : display area 3 = O2 : LOW and red LED lighting.

DISPLAY MENU

This is the most detailed menu

SHOW AVERAGE is used to display or do not display the average value during the diving (display area 2)

LIGHTING is used :

to choose lightness level from 25 % to 100 % by step of 25 %.

to choose type of backlighting (either permanent or limited sequence from 5 to 20 sec/min).

LANGUAGE is used to choose among 4 languages :

Italian, English, French or German language.

ARM allow to flip the screen when it's fixed on the left or right arm.

When calculated PPO2 is included inside the range between high and low level alarm, no LED is ON on HUD. In order to check that everything is working, it's possible to get flash light on the 2 LEDs periodically. For that, do to HUD TIMING (every 2, 4, 6 or 8 sec)

Finally, SYSTEM INFORMATION is used to get voltage of the 3 cells, and battery voltage, the firmware version and finally the cumulated runnig time of the MONOX

Now you can switch off the manual and switch on your MONOX !